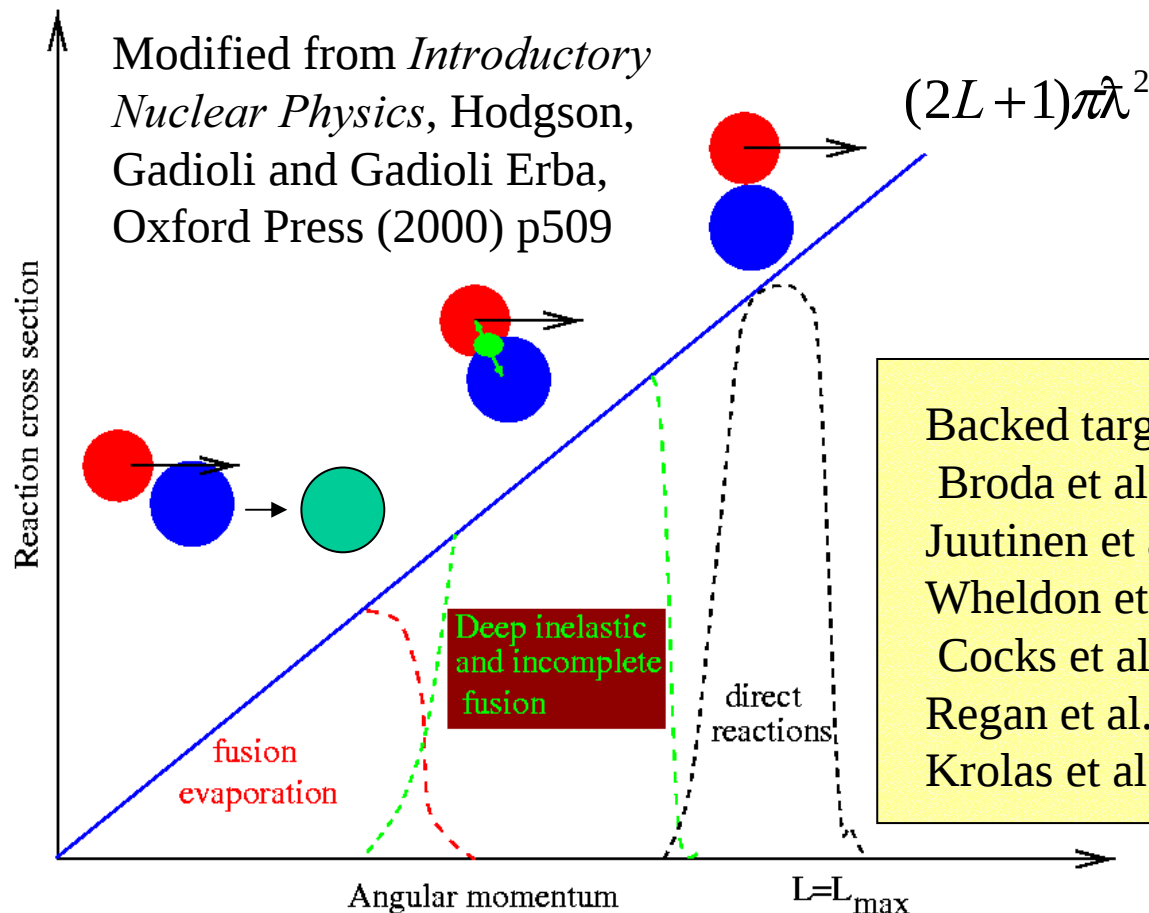


Aim? To perform high-spin physics in stable and neutron rich nuclei.

Problem: Fusion makes proton-rich nuclei.

Solutions? (a) fragmentation (b) binary collisions/multi-nucleon transfer



Rolling limit :

$$L_{TLF} = \frac{2}{7} \left(\frac{1}{1 + (A_B/A_T)^{1/3}} \right) L_{MAX}$$

$$L_{MAX} = \sqrt{\frac{2\mu R^2}{\hbar^2} (E_{CM} - V_C)}$$

Backed target studies of DICs see eg.

Broda et al. Phys. Rev Lett. **74** (1995) p868

Juutinen et al. Phys. Lett. **386B** (1996) p80

Wheldon et al. Phys. Lett. **425B** (1998) p239

Cocks et al. J. Phys. **G26** (2000) p23

Regan et al., Phys. Rev. C **55** (1997) 2305

Krolas et al., Nucl. Phys. **A724** (2003) 289